

**ABSTRACT**

A system detects a non-video source embedded in a video sequence and provides direction to a deinterlacing algorithm accordingly. The system comprises a signal generator for generating a plurality of signals. The signals are generated in accordance with pixels input from the video sequence. The system further comprises a plurality of pattern detection state machines, each for receiving the signals and for detecting a pattern in the video sequence. The pattern is detected in accordance with a preset threshold, wherein the pattern detection state machine varies the preset threshold in accordance with the received signals. The system further comprises an arbiter state machine coupled with the plurality of pattern detection state machines for governing the pattern detection state machines and for determining whether or not a non-video source is embedded in the video sequence.

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